



Richmond County and the Town of Warsaw

Water Source Overview

Major sources of water are groundwater wells.

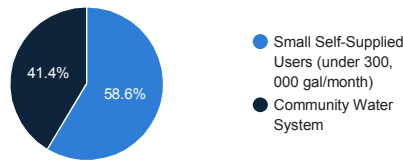
***Table 1:** Reported (2010) and projected (2040) water use by system type for Richmond County in MGD

| Type | Reported Use 2010 MGD | Projected Use 2040 MGD |
|--|--------------------------|---------------------------|
| Small Self-Supplied Users (under 300,000 gal/month) | 0.470 | 0.582 |
| Community Water System | 0.332 | 0.401 |

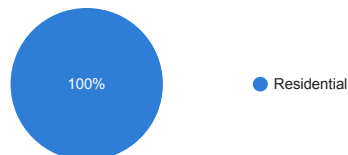
Water Use by System Type

Approximately 6,270 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

***Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



***Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



***Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Richmond County in MGD

| Reported 2010 Groundwater Use (MGD) | Reported 2010 Surface Water Use (MGD) | Projected 2040 Groundwater Use (MGD) | Projected 2040 Surface Water Use (MGD) |
|-------------------------------------|---------------------------------------|--------------------------------------|--|
| 0.80 | 0.00 | 0.98 | 0.00 |

***Figure 3:** Richmond County highlighted in the Commonwealth of Virginia



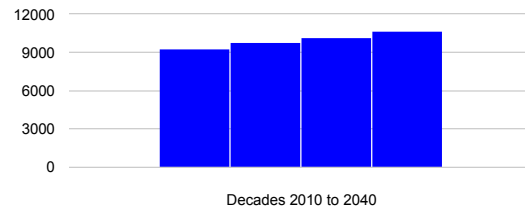
Projected Water Demand

Population and demand are projected to increase through the planning period. Existing water sources are expected to meet projected demands.

***Table 3:** Richmond County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

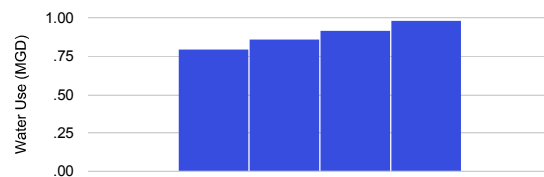
| 2010 | 2020 | 2030 | 2040 | % Change (2010-2040) |
|-------|-------|--------|--------|----------------------|
| 9,254 | 9,727 | 10,175 | 10,587 | 11.1% |

***Figure 4:** Richmond County population projections by decade for 2010, 2020, 2030 & 2040



***Table 4 & Figure 5:** Richmond County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

| Reported Use 2010 MGD | Projected Use 2020 MGD | Projected Use 2030 MGD | Projected Use 2040 MGD | Percent Change (2010-2040) |
|-----------------------|------------------------|------------------------|------------------------|----------------------------|
| 0.80 | 0.86 | 0.92 | 0.98 | 22.5% |



Drought Management Practices

The County and Town adopted ordinances for the implementation and enforcement of the Drought Response and Contingency Plan. (Northern Neck Regional WSP)